

Light Text = Identity between sequences (68 %)
----- = TPH2a ISH probe
----- = TPH2b ISH probe
----- = TPH1-892 ISH probe
Underlined residues = TPH2c ISH probe
***** = Real-time RT-PCR amplicons
 = Catalytic domain

mTPH2: MQPAMMFSSKYWARRGLSLDSAVPEDHQLLGSLTONKATKSEDKKSGKEPGKGDITTE
mTPH1: M.....I..EDNKENKEN.KDHSSE

mTPH2: SSKTAWFSLKNEVGGLVKALRLFQEKHVNMLHIESRRRRSSSEVEIFVDCCEGKTE
mTPH1: RGRVTLIFSLNEVGGLIKVLKIFQENHVSLLHIESRKSKQRNSEFEIFVDCDISREQ

mTPH2: FNELIQLLKFQITIVTLNPPESIWTEEEEDLEDVPWFPRKISELDRCSHRVLMYGTELD
mTPH1: LNDIFPLLKSHATVLSVDSPDQLTAKEDVMEIVPWFPPKISDLDFCANRVLLYGSELD

mTPH2: ADHPGFKDNVYRQRKRYFVDVAMGYKYGQPIRVEYTEEEETKTGWFWFRELSKLYPTH
mTPH1: ADHPGFKDNVYRQRKRYFAELAMNYKHGDPIPKIEFTEEEIKTWGTIFRELNKLYPTH

mTPH2: ACREYLKNLPLLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAGYLSPRDFLAGLA
mTPH1: ACREYLRNLPLLSKYCGYREDNIPQLEDVSNFLKERTGFSIRPVAGYLSPRDFLSGLA

mTPH2: YRVFHTQYVVRHGSDDLYTPEPDTCHELLGHVPLLADPKFAQFSQEIGLASLGASDED
mTPH1: FRVFHTQYVVRHSSDDLYTPEPDTCHELLGHVPLLAEPSFAQFSQEIGLASLGASEET

mTPH2: VQKLATCYFFTIEFGLCKQEGQLRAYGAGLLSSIGELKHALSDKACVKSFDPKTTCLQ
mTPH1: VQKLATCYFFTVEFGLCKQDGLRVFGAGLLSSISELKHALSGHAKVKPFDPKIACKQ

mTPH2: ECLITTFQDAYFVSDSFEEAKEKMRDFAKSITRPFSVYFNRYTQSIEILKDTRSIENV
mTPH1: ECLITSFQDVYFVSESFEDAKEKMRFAKTVKRPFGGLKYNPYTQSVQVLRDTKSITSA

mTPH2: VQDLRSDLNTVCDALNKMNQYLGI
mTPH1: MNELRYDLDVISDALARVTRWPSV

FIG.1
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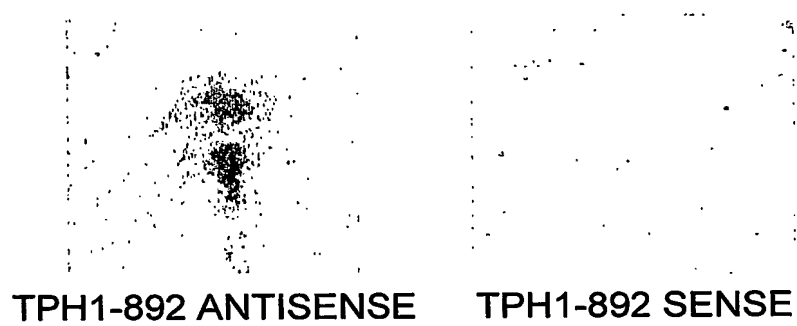


FIG.2A

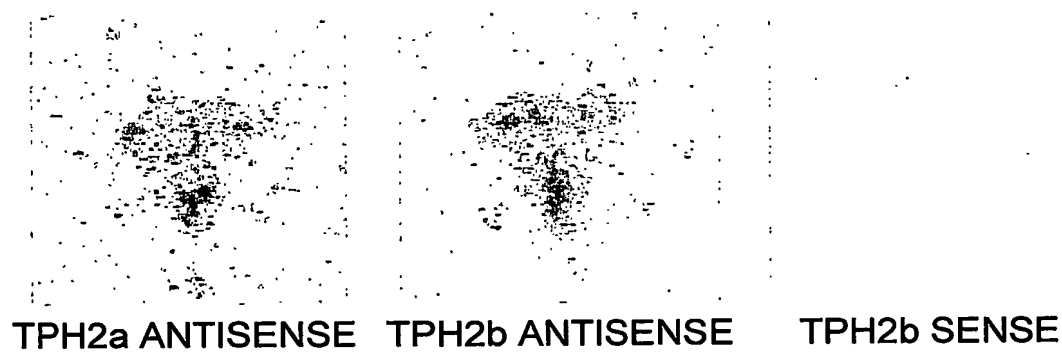


FIG.2B

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ROSTRAL

ROSTRAL

TPH 1

EXPOSURE TIME : 3 DAYS

TPH 2

EXPOSURE TIME : 1 1/2 hr

CAUDAL

CAUDAL

FIG.3A

FIG.3B

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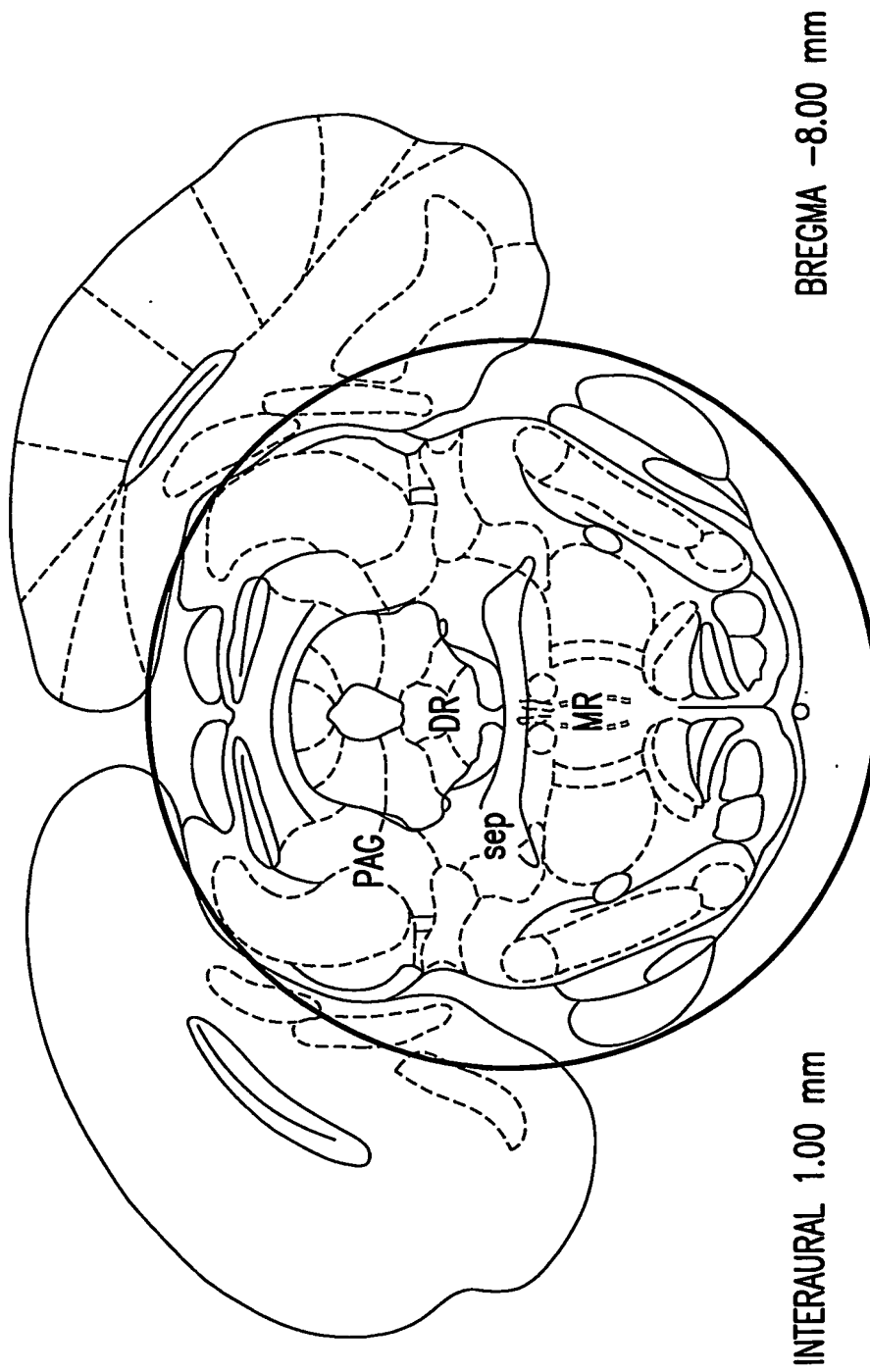


FIG. 4A

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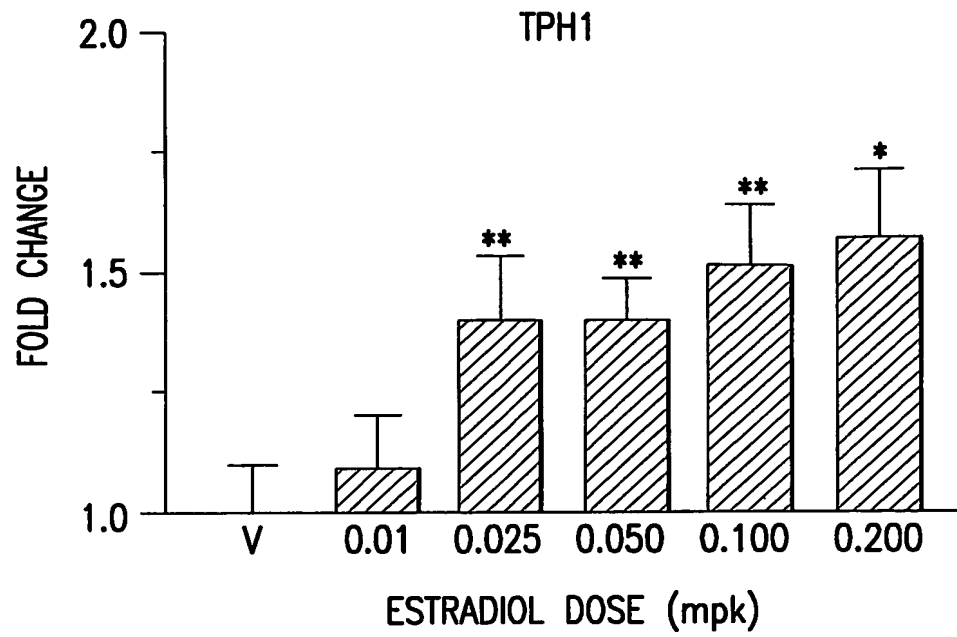


FIG.4B

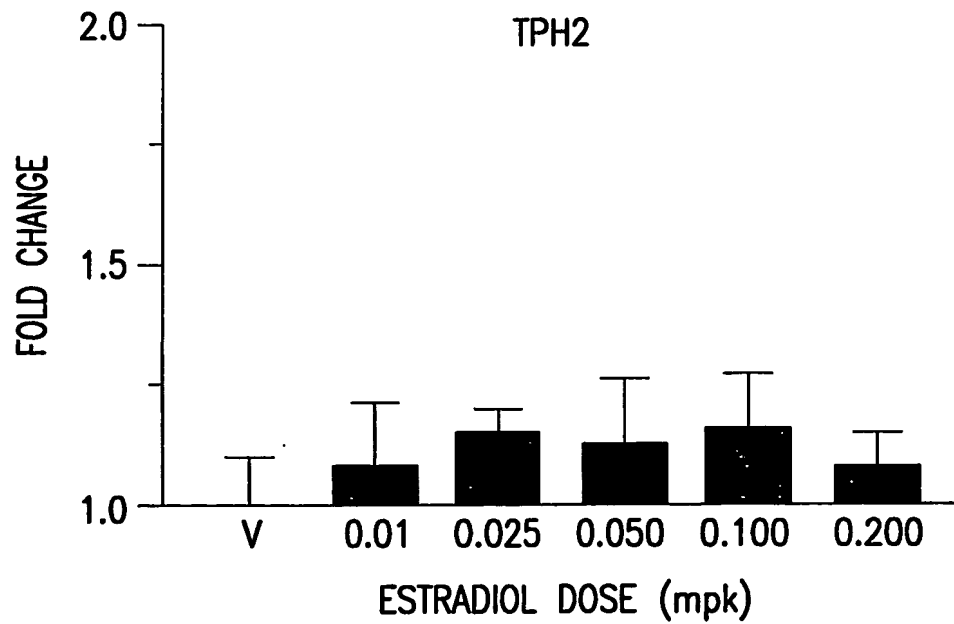


FIG.4C

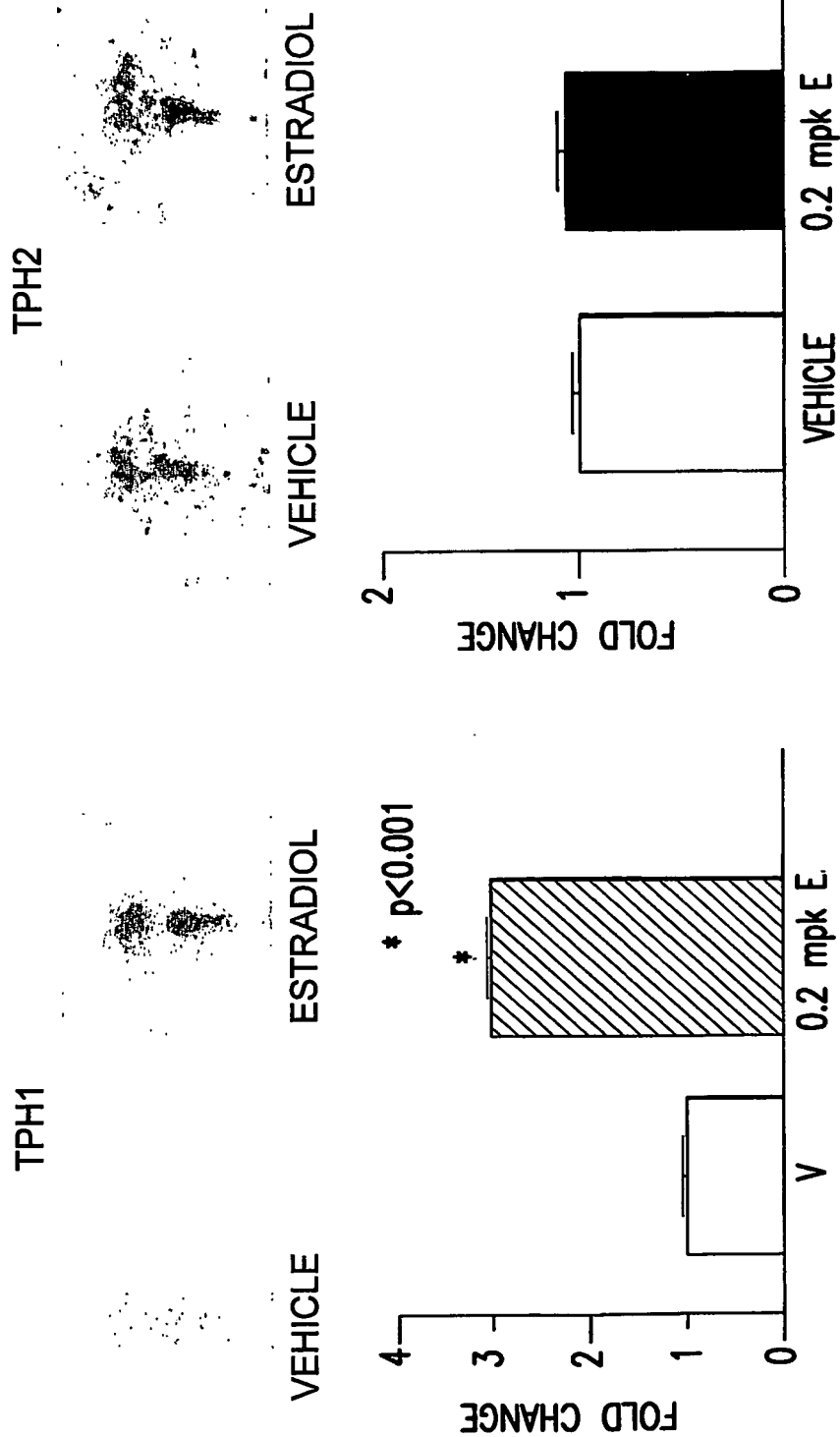


FIG.5B

FIG.5A

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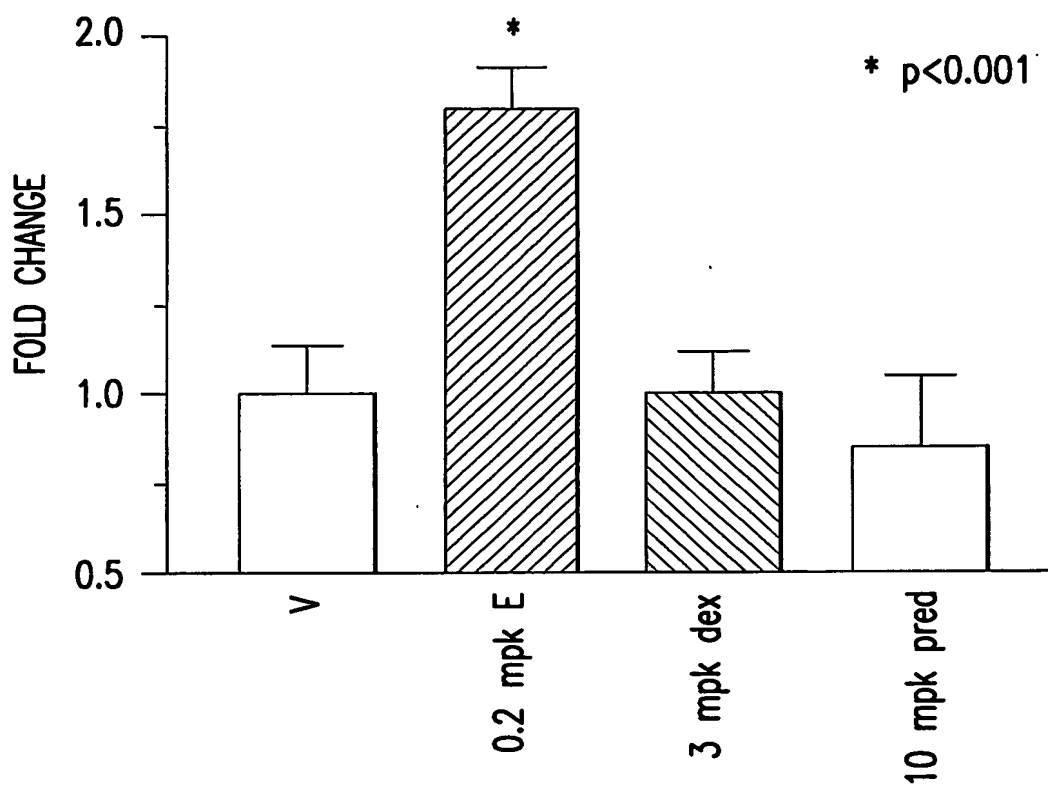


FIG.6

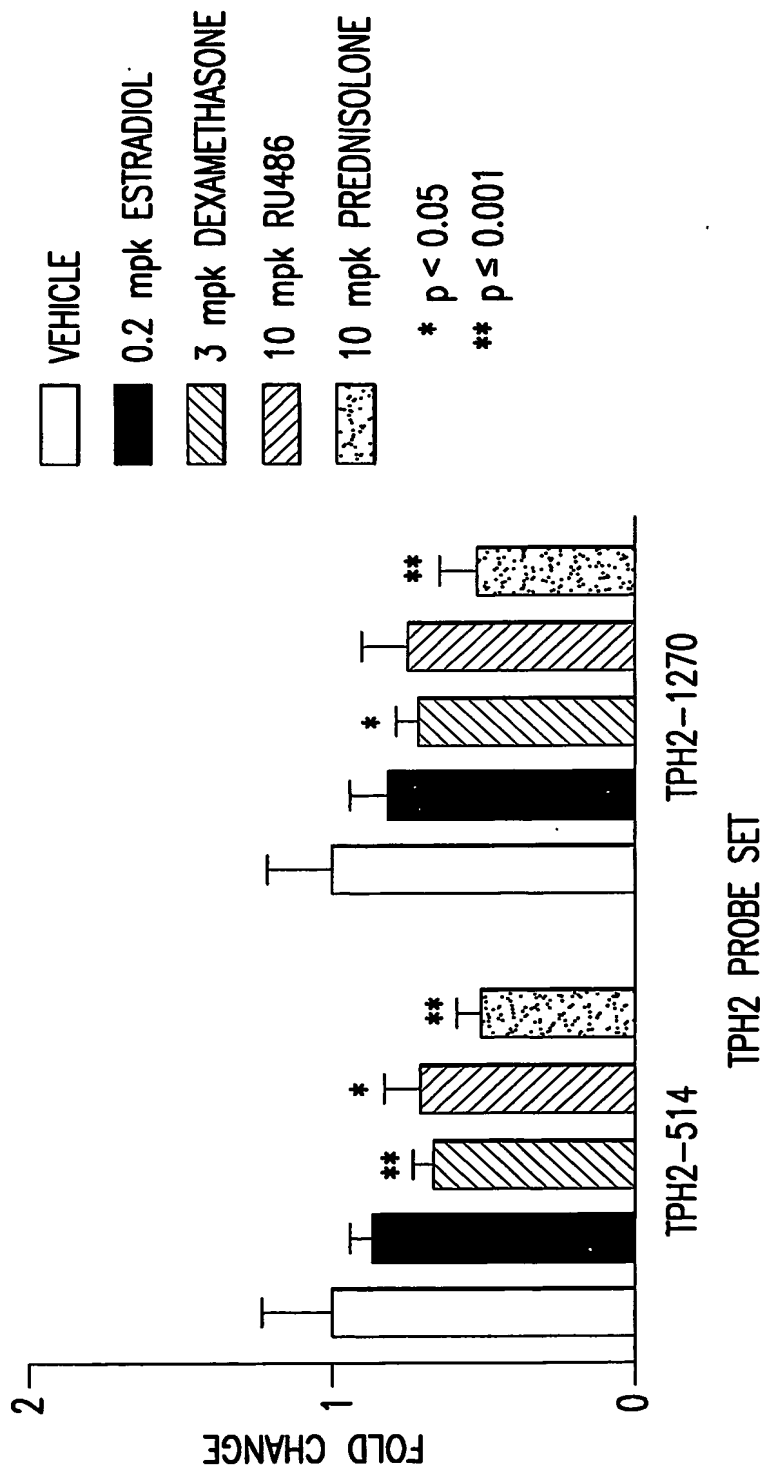


FIG. 7

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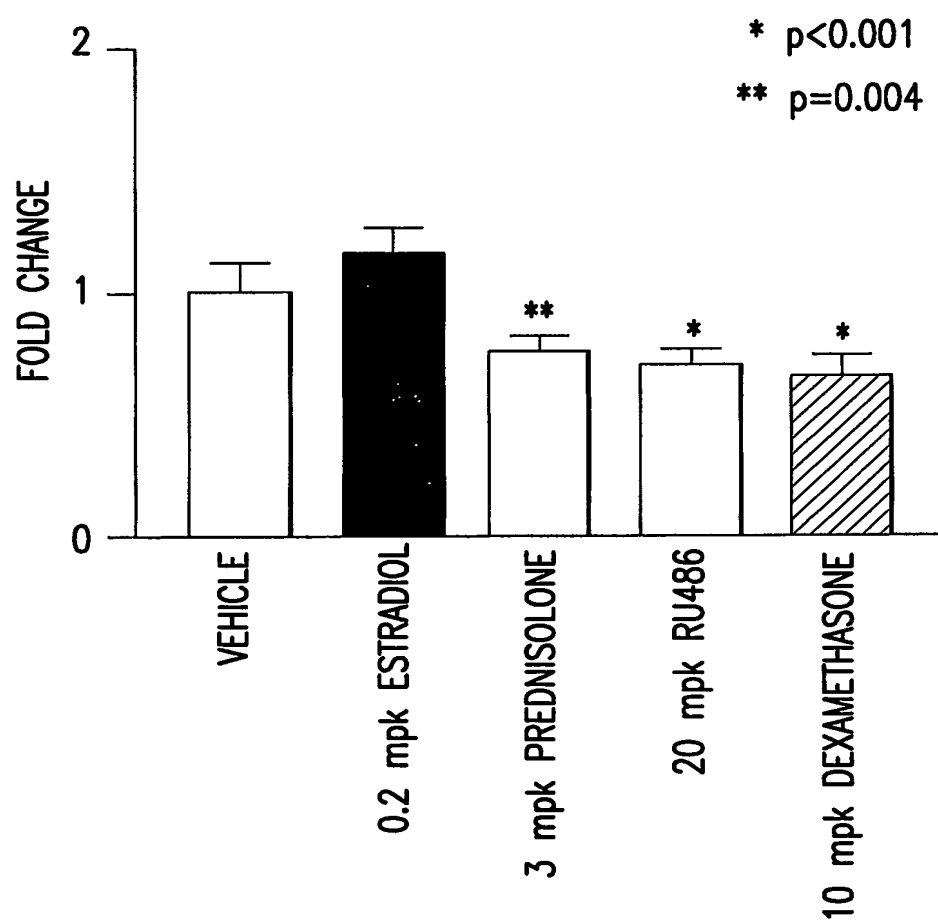


FIG.8

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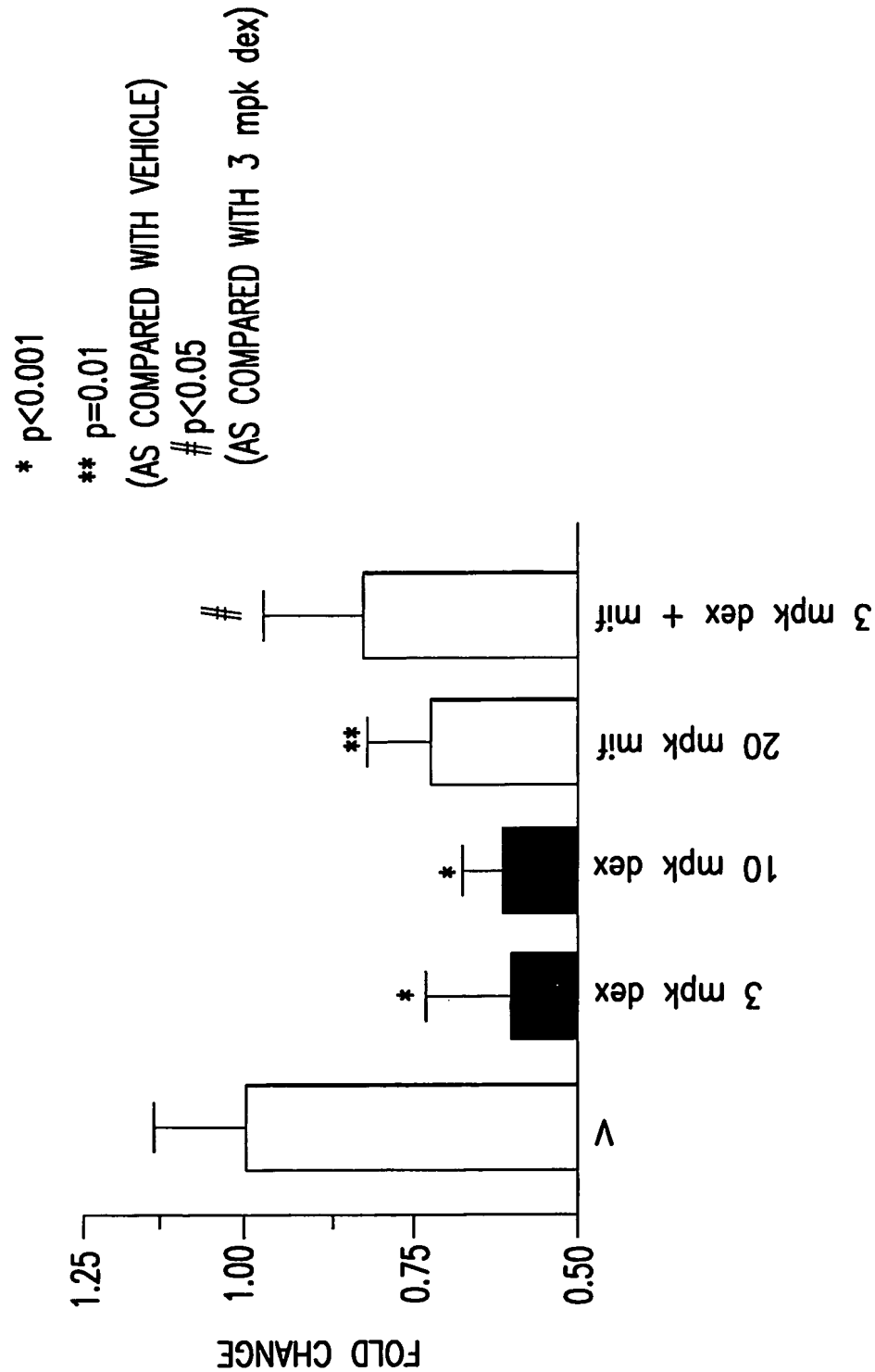


FIG.9

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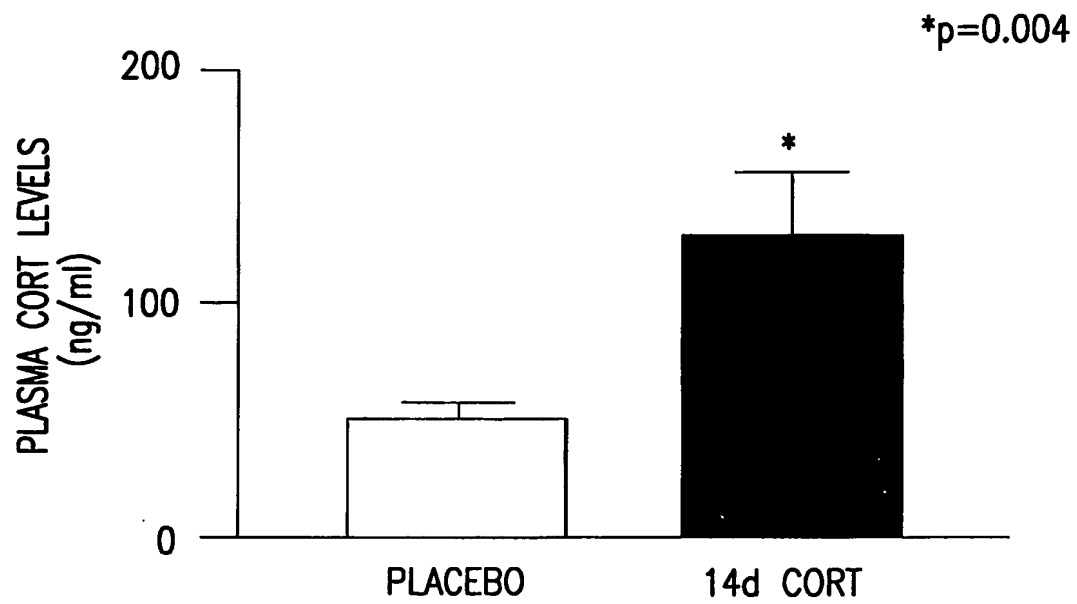


FIG.10

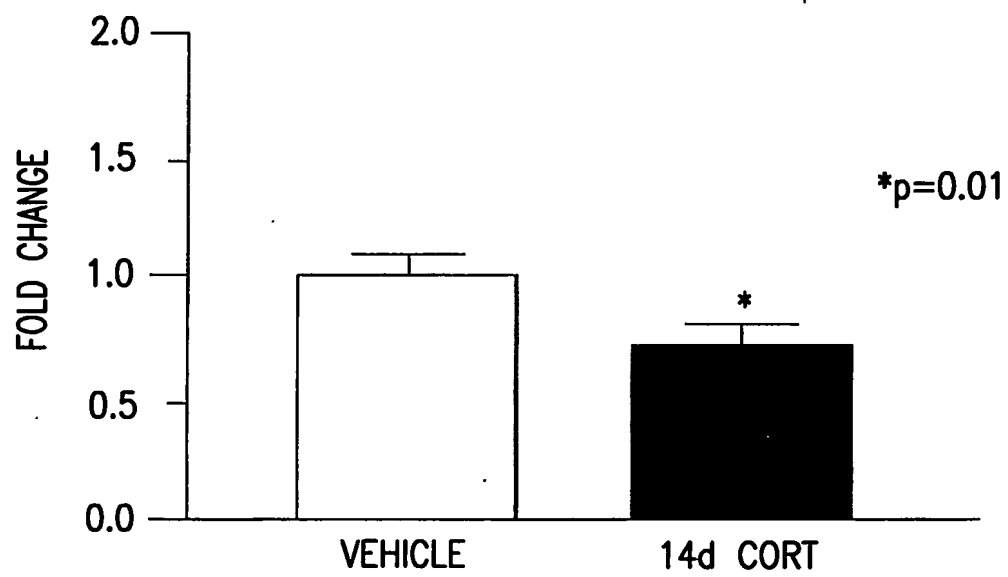


FIG.11

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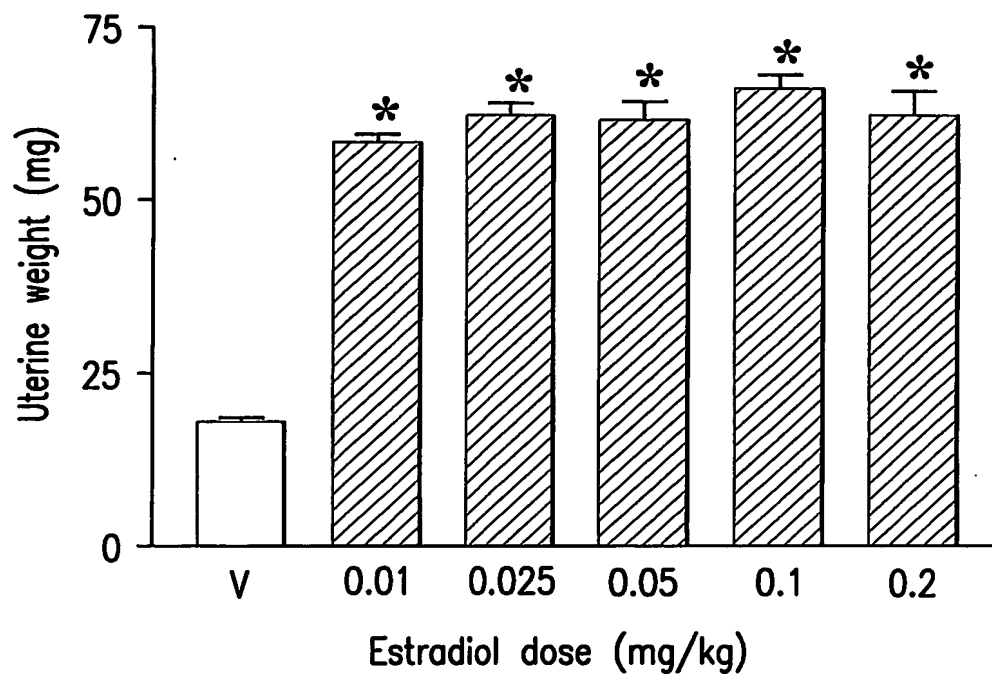


FIG.12

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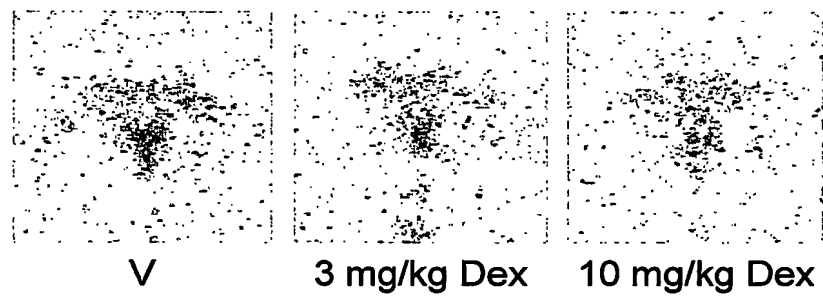


FIG.13A

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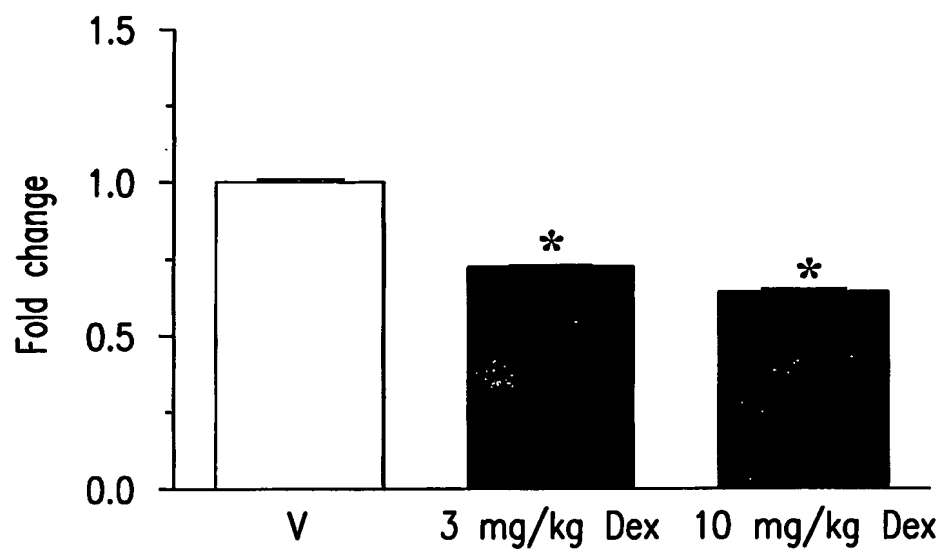


FIG. 13B

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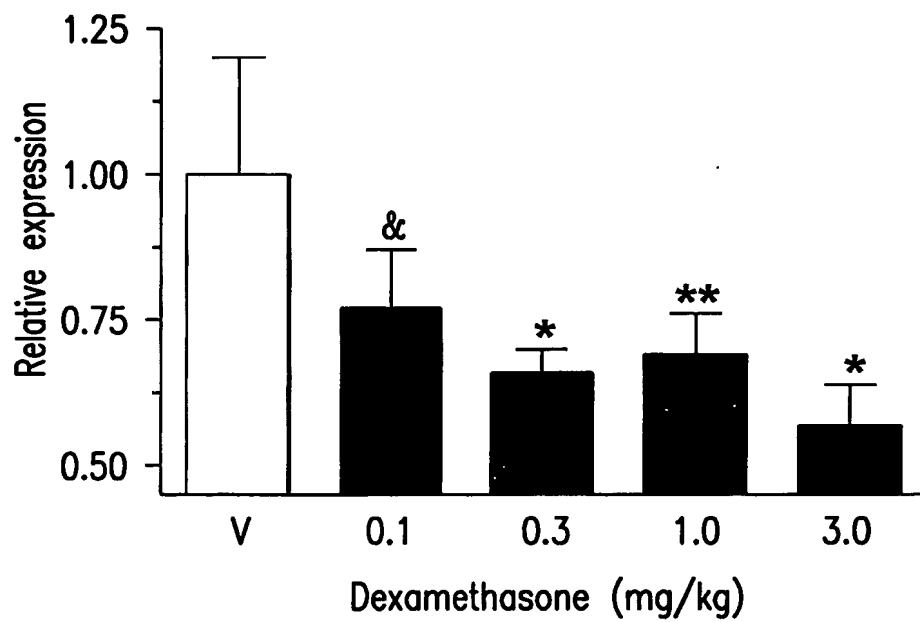


FIG. 14

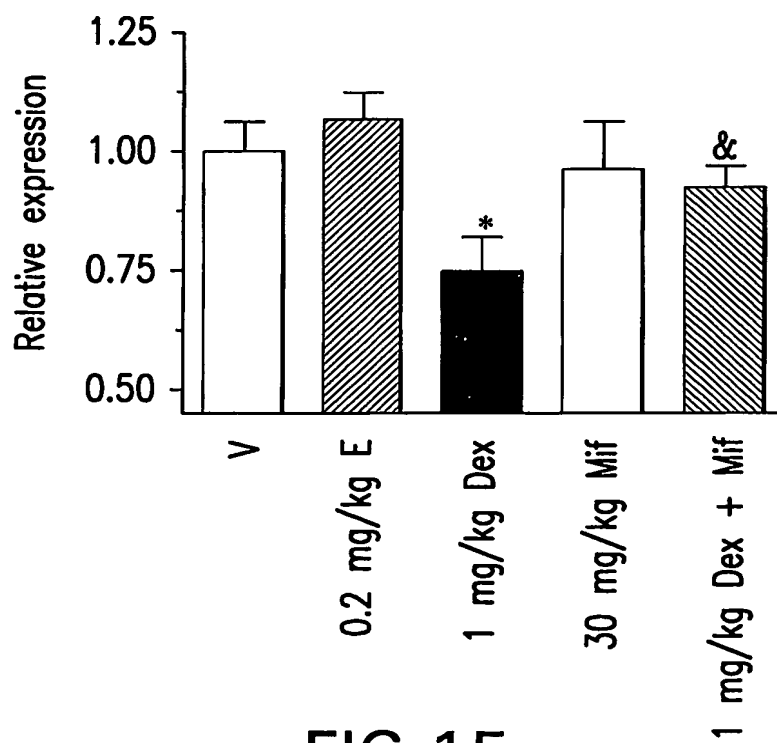


FIG. 15

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